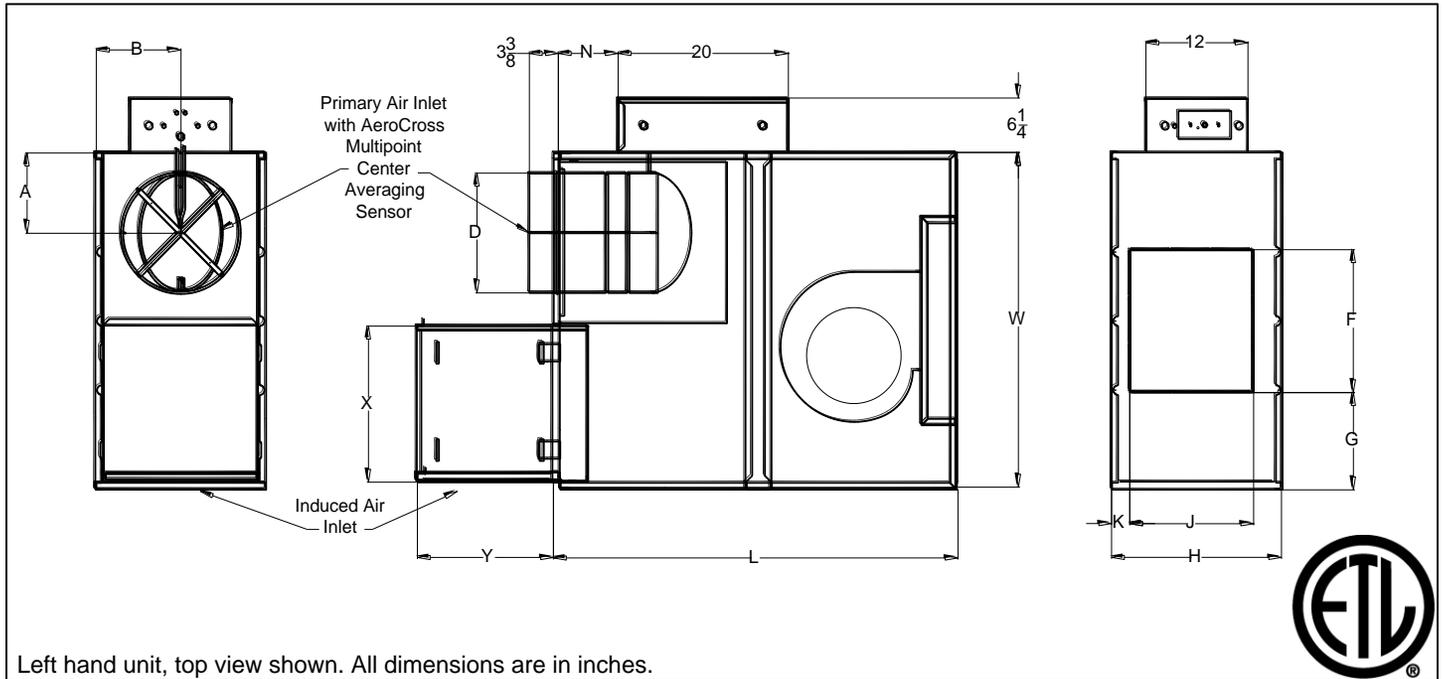


## DTFS-F Phantom IQ™, TITAN™ Programmed ECM Motor

Ultra Quiet Fan Powered Terminal, Series Flow  
Direct Digital Control, Pressure Independent



Left hand unit, top view shown. All dimensions are in inches.

Unit Size	Inlet Size	A	B	X	Y	D	Induced Air Inlet		F	G	H	J	K	L	N	W	Filter Size
							Height	Width									
B	6	6	8	19	13 7/8	5 7/8	12 5/8	8 3/4	14	11 1/2	16	11	2 1/4	43	2 7/8	37	11 x 14
	8	6				7 7/8									4 7/8		
	10	7				9 7/8									4 7/8		
	12	8				11 7/8									4 7/8		
C	6	6	10	18 1/8	16 7/8	5 7/8	16 5/8	15 3/4	16 1/2	11 1/4	20	14 5/8	2	46 3/4	4 7/8	39	18 x 17
	8	6				7 7/8									4 7/8		
	10	7				9 7/8									4 7/8		
	12	8				11 7/8									4 7/8		
D	10	7	10	18 1/8	16 7/8	9 7/8	16 5/8	15 3/4	16 1/2	11 1/4	20	14 5/8	2	46 3/4	4 7/8	39	18 x 17
	12	8				11 7/8									4 7/8		
	14	10				13 7/8									4 7/8		
	16	11				15 7/8									4 7/8		
E	12	8	10	18 1/8	16 7/8	11 7/8	16 5/8	15 3/4	16 1/2	11 1/4	20	14 5/8	2	46 3/4	4 7/8	39	18 x 17
	14	10				13 7/8									4 7/8		
	16	11				15 7/8									4 7/8		

### ECM Motor Amperage Ratings

Unit Size	Motor hp	120V/1/60 FLA	208V/1/60 FLA	277V/1/60 FLA
B	1/3	5.0	3.3	2.6
C	1/3	5.0	3.3	2.6
D	1/2	7.7	5.0	4.1
E	3/4	9.6	7.9	5.5

FLA = Full Load Amperage, rated per the motor nameplate

All fan motors are single phase, same voltage as electric coil (when supplied), with exception that 277V motors are used with 480V, 3 phase coils (4 wire wye).

### Accessories (Optional)

Check  if provided.

- Induced Air Filter, 1" thick, disposable construction type.
- Fan disconnect switch (not available on units with optional electric coils.)
- Fibre Free Liner
- SteriLoc Liner
- 1/2" EcoShield Liner
- 1/2" EcoShield Liner (Foil Face)
- 1/2" Fibre Free Liner
- Fan unit fusing
- Cam Latch for Access Door
- 1" Fiberglass Liner
- 1" EcoShield Liner
- 1" EcoShield Liner (Foil Face)
- 1" Fibre Free Liner
- Hanger Brackets
- OSP & IBC Certification

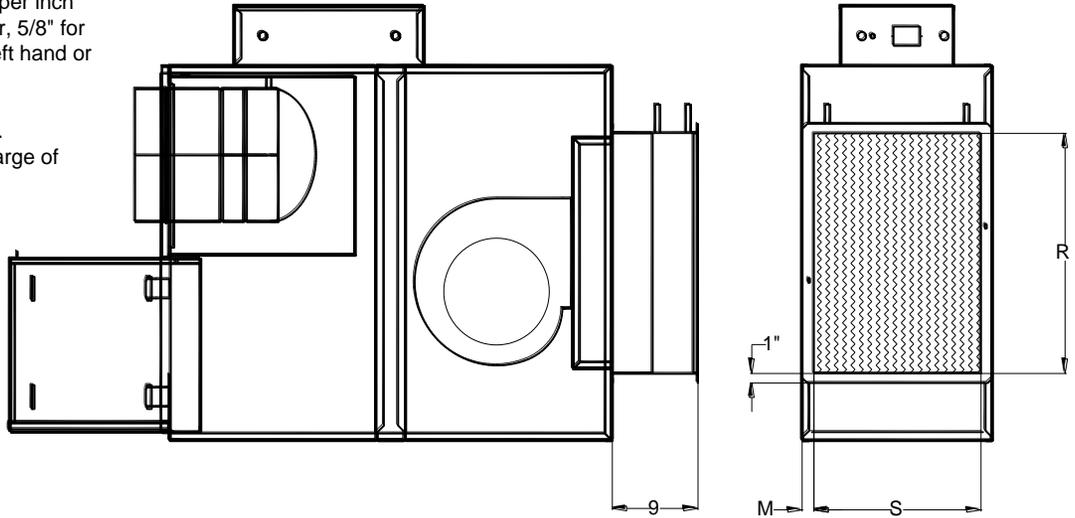
## Accessories (Optional)

Hot Water Coil Section

- 1/2" copper tubes
- Aluminum ripple fins, 10 per inch
- Connections: Male solder, 5/8" for both 1-row and 2-row. Left hand or right hand connections.
- Galvanized steel casing
- Flanged duct connection.
- Coil is installed on discharge of unit.

1 Row

2 Row



Unit Size	M (1 row)	M (2 row)	R	S
B,C	1	1	20 1/2	12 1/2
D,E	1	1 1/4	25	17 1/2

R and S are inside dimensions.

Electric Coil Section

Optional Lynergy Controlled Electric Heater

**Standard Features**

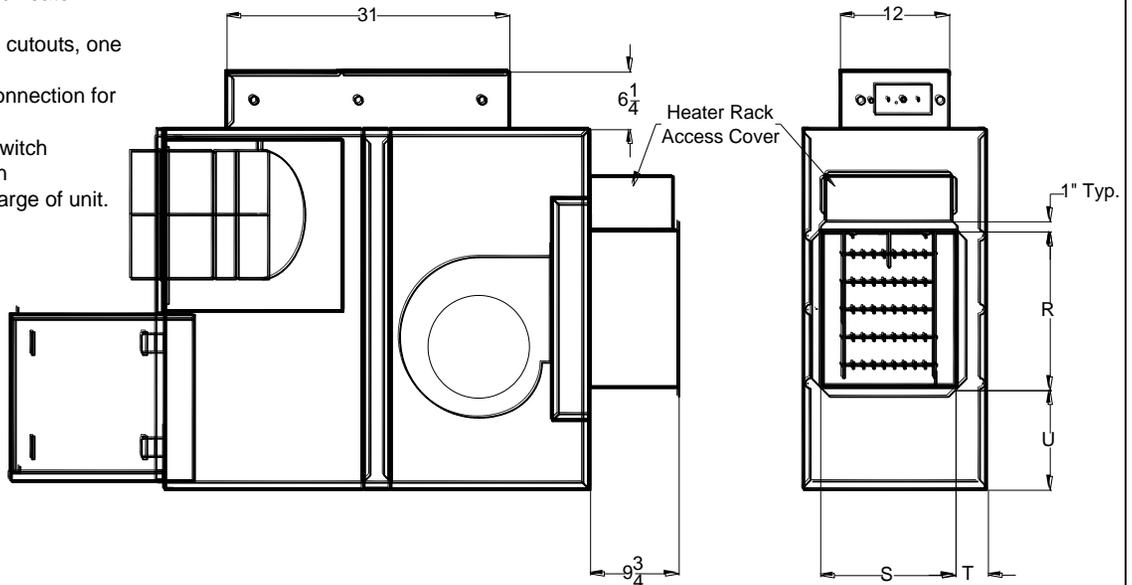
- Single side access to low voltage, high voltage, and electric heater controls.
- Automatic reset thermal cutouts, one per element
- Single point electrical connection for entire unit
- Positive pressure flow switch
- Flanged duct connection
- Coil is installed at discharge of unit.
- Transformer

**Options**

- Fuse Block
- Disconnect switch, door interlock type
- Manual reset cutout
- Dust tight construction
- Mercury contactors

**Supply Voltage**

- 208V, 1 ph, 60Hz
- 240V, 1 ph, 60Hz
- 277V, 1 ph, 60Hz
- 208V, 3 ph, 60Hz
- 480V, 3 ph, 60Hz (4 wire wye only)

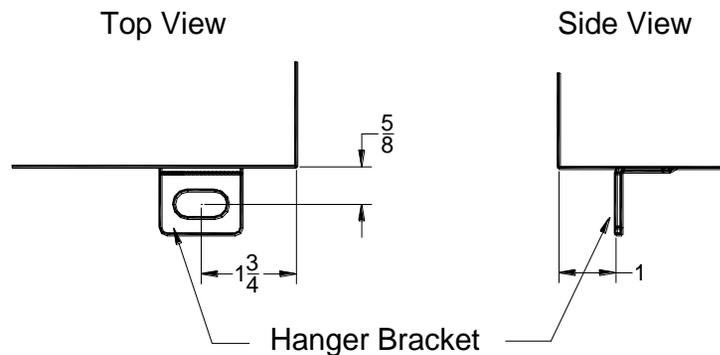


Unit Size	U	R	S	T
B,C	11 3/8	14 1/2	11 1/2	3 3/8
D,E	11	17	15	3 1/8

R and S are inside dimensions.

## Accessories (Optional)

### Hanger Bracket Location



## General Description

- Heavy steel casing, with leak resistant construction.
- Dual density insulation, coated to prevent air erosion, meet requirements of NFPA 90A and UL 181.
- Ultra high efficiency, brushless DC ECM motor with a unique microprocessor based motor controller, mounted in vibration isolators.
- Manual PWM controller allows simple screwdriver adjustment of fan speed.
- Optional remote PWM controller allows for a 0-10 V signal from the DDC controller to adjust the fan speed.
- Efficiencies of up to 70% across the entire operating range.
- Provides a large turndown ratio
- Constant volume regardless of changes in downstream static pressure allows for factory setting of cfm.
- Patent-pending FAST™ attenuator system that greatly reduces radiated sound power levels. The FAST™ attenuator ships assembled inside the casing, pulls out easily and snaps into place for operation.
- Top and bottom access panels can be removed for service.
- Multipoint, center averaging velocity sensor.
- Primary air flow balancing connections.
- Pressure independent primary flow control.
- Single point electrical connections.
- Rectangular discharge opening is designed for flanged duct connections.
- OSHPD Seismic Certification: OSP-0352-10
- Only Titus Alpha digital controls package approved for seismic installation.